

Title (en)

OPTICAL INFORMATION RECORDING MEDIUM AND METHOD OF READING THE SAME INFORMATION

Title (de)

OPTISCHES INFORMATIONSAUFZEICHNUNGSMEDIUM UND VERFAHREN ZUM LESEN DERSELBEN INFORMATION

Title (fr)

SUPPORT D'ENREGISTREMENT D'INFORMATIONS OPTIQUE ET PROCEDE DE LECTURE DE CES INFORMATIONS

Publication

EP 0613126 B1 19981104 (EN)

Application

EP 93919574 A 19930826

Priority

- JP 9301199 W 19930826
- JP 23053592 A 19920828

Abstract (en)

[origin: US5625619A] In an optical information recording medium of this invention, at least one cell including diffraction gratings is disposed on a planar substrate. In accordance with exemplary embodiments, a ratio of a line width of the diffraction gratings to a grating pitch of the diffraction gratings is changed based on the data. To read information, an incident light beam is caused to be incident on the cell. Diffracted light components emerging from the cell are received by light receiving elements, thereby reproducing data. Thus, information can be recorded at a very high density, and information can be read at a high speed.

IPC 1-7

G11B 7/24; **G11B 7/00**; **G11B 7/013**

IPC 8 full level

B41M 5/26 (2006.01); **B42D 25/30** (2014.01); **B42D 25/305** (2014.01); **B42D 25/328** (2014.01); **G02B 5/18** (2006.01); **G06K 7/10** (2006.01); **G06K 19/06** (2006.01); **G11B 7/00** (2006.01); **G11B 7/005** (2006.01); **G11B 7/0065** (2006.01); **G11B 7/007** (2006.01); **G11B 7/013** (2006.01); **G11B 7/24035** (2013.01); **G11B 7/24047** (2013.01); **G11B 7/24097** (2013.01)

CPC (source: EP US)

G11B 7/005 (2013.01 - EP US); **G11B 7/0065** (2013.01 - EP US); **G11B 7/24** (2013.01 - EP US); **G11B 7/24085** (2013.01 - EP US)

Cited by

US5754520A; US5875170A; EP0718834A3; US6881476B2; WO0246845A1; WO0215178A1

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

US 5625619 A 19970429; DE 69321938 D1 19981210; DE 69321938 T2 19990701; EP 0613126 A1 19940831; EP 0613126 A4 19950118; EP 0613126 B1 19981104; JP 3175326 B2 20010611; JP H0676365 A 19940318; US 5570338 A 19961029; US 5644565 A 19970701; WO 9406113 A1 19940317

DOCDB simple family (application)

US 47581495 A 19950607; DE 69321938 T 19930826; EP 93919574 A 19930826; JP 23053592 A 19920828; JP 9301199 W 19930826; US 23207294 A 19940428; US 47581695 A 19950607